	Application No.	plication No. Applicant(s)		
Notice of Allowability	09/711,905	ABE, SHINYA		
	Examiner	Art Unit		
	Kim-Kwok CHU	2653		
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate comming GHTS. This application is	ith the correspondence address in this application. If not included nunication will be mailed in due co	urse. THIS	
1. This communication is responsive to <u>Amendment filed on 8</u>	<u>3/18/2004</u> .			
2. The allowed claim(s) is/are 1-5, 7-18 and 20-26 which are	renumbered as 1-24 respe	<u>ctively</u> .		
3. \square The drawings filed on $\underline{11/15/2000}$ are accepted by the Example 1.	miner.			
 4. Acknowledgment is made of a claim for foreign priority units a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application	on No	n from the	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requi	rements	
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			「ICE OF	
6. CORRECTED DRAWINGS (as "replacement sheets") mus				
(a) ☐ including changes required by the Notice of Draftspers1) ☐ hereto or 2) ☐ to Paper No./Mail Date	_	w (P10-948) attached		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date		r in the Office action of		
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on t	the drawings in the front (not the ba	ick) of	
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT R	sit of BIOLOGICAL MAT	ERIAL must be submitted. Not	e the	
Attachment(s)	—			
1. Notice of References Cited (PTO-892)	•	nformal Patent Application (PTO-1	52)	
 Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO-1449 or PTO/SB/0 	Paper No.	 Interview Summary (PTO-413), Paper No./Mail Date □ Examiner's Amendment/Comment 		
Paper No./Mail Date				
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's	s Statement of Reasons for Allowa 	ince	
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Allowable Subject Matter

- 1. Claims 1-5, 7-18 and 20-26 are allowable over prior art.
- 2. The following is an Examiner's statement of reasons for the indication of allowable subject matter based on Applicant's Amendment filed on August 18, 2004.

As in claims 1, 9, 14 and 22, the prior art of record fails to teach or fairly suggest a feedback control having the following features:

(a) the focusing control of the objective lens is executed to position a focal point of the objective lens a predetermined fine distance which is smaller than a film thickness of the photosensitive material film within the photosensitive material film relative to a surface of the photosensitive material film.

As in claims 5, 13, 18, 25 and 26 the prior art of record fails to teach or fairly suggest a feedback control having the following features:

- (a) the feedback control is performed using different light whose wavelength is longer than that of the recording light such that a distance between the objective lens and the recording medium remains constant;
- (b) a discrepancy of the distance between the objective lens and the recording medium from a desirable distance is

detected using reflected light which is generated as the recording medium reflects the recording light; and

(c) a control target position for the feedback control is corrected based on a detected discrepancy of the distance between the objective lens and the recording medium from a desirable distance such that the distance between the objective lens and the recording medium becomes the desirable distance.

As in claims 7 and 8, the prior art of record fails to teach or fairly suggest a method of detecting a deviation of a focal point position having the following features:

- (a) the intensity distribution of the reflected light is an intensity distribution of a spot of the reflected light which is projected on a light receiving surface which is arranged confocal with respect to the recording medium; and
- (b) based on an intensity at the center inside the spot and a distance between the center of the spot and a point at which an intensity of a diffraction ring is maximum, the discrepancy of the distance between the objective lens and the recording medium from the desirable distance is detected.

As in claims 20 and 21, the prior art of record fails to teach or fairly suggest a focal point deviation detecting means having the following features:

(a) the intensity distribution of the reflected light is an intensity distribution of a spot of the reflected light which is

projected on a light receiving surface is detected as the intensity distribution of the reflected light; and

(b) a judgment means judges an intensity at the center inside the spot and a distance between the center of the spot and a point at which an intensity of a diffraction ring of the spot to thereby detect the discrepancy of the distance between the objective lens and the recording medium from a desirable distance.

The features indicated above, in combination with the other elements of the claims, are not anticipated by, nor made obvious over the prior art of record.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hoshino et al. (5,740,138) is pertinent because Hoshino teaches a second laser with a longer wavelength as a rough focusing adjusting means.

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5. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231 Or faxed to:

(703) 872-9306 (for formal communications intended for entry. Or:

(703) 746-6909, (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2021 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-4700.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kim CHU whose telephone number is (703) 305-3032 between 9:30 am to 6:00 pm, Monday to Friday.

(4) 11/12/04

Kim-Kwok CHU Examiner AU2653 November 22, 2004

(703) 305-3032

WILLIAM KORZUCH SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600